

## **CURRICULUM VITAE**

Kenneth Drasner, M.D.

Professor in Residence

Department of Anesthesia and Perioperative Care

University of California, San Francisco

### **EDUCATION:**

B.A., University of California, Berkeley, California

M.D., University of California, San Francisco, California

Internship (Pediatrics), Children's Hospital Medical Center, Boston, Massachusetts

Residency (Pediatrics), Children's Hospital Medical Center, Boston, Massachusetts

Residency (Anesthesia), University of California, San Francisco, California

Chief Resident (Anesthesia), University of California, San Francisco

Research Fellow (Anesthesia), University of California, San Francisco, California

### **POSITIONS HELD:**

Assistant Professor in Residence (Anesthesia) 1985-92

Associate Professor in Residence (Anesthesia) 1992-98

Professor in Residence (Anesthesia) 1998-

### **SPECIALTY CERTIFICATION:**

Diplomate, American Board of Pediatrics

Diplomate, American Board of Anesthesiology

### **SUB-SPECIALTY CERTIFICATION:**

Pain Management, American Board of Anesthesiology

### **LICENSURE:**

California

### **UNIVERSITY AND PUBLIC SERVICE:**

San Francisco

General Hospital: Operating Room Committee 1987-89

Infection Control Committee 1988-91

Pain Management Committee 1988-91

Impaired Medical Staff Committee 1989-91

Formulary Review Committee 1989-91

Critical Care Committee 1990-91

Coordinator, Faculty Schedule 1995-96

Director, Acute Pain Service 1995-96; 2003-

Animal Care Committee 1997-

Pharmacy and Therapeutics Committee 2002-

Chair, Pain Management Committee 2002-

Chair, PCA-FMECA Committee 2003-

Director, Anesthesia Preoperative Clinic 2003-

Department of Anesthesia: Director, Departmental Continuing 1988-91  
Education Program  
Physician Assistance Committee 1989-91  
Resident Evaluation Committee 1991-93  
Director, Acute Pain Service (Moffitt-Long 1991-93 Hospital)  
University: Director, Medical Student Clerkship (SFGH) 1986-91  
Coordinator, Paramedic Intubation Training 1986-88 Program  
Student Advisor, School of Medicine 1990-95  
Committee on Animal Research 1995-98  
Faculty Welfare Committee 2003-  
Extramural: Consultant, Food and Drug Administration 1994-

### **INVITED LECTURES AND PRESENTATIONS:**

Future choices: New possibilities in pain relief. Obstetric Anesthesia 1986  
Update: State of the Art, San Francisco, California, March  
Postoperative pain management. Preoperative Evaluation of the 1987  
Surgical Patient, San Francisco, California, March  
Spinal cord receptors: Future therapies. The Changing Practice of Anesthesia, San  
Francisco, California, September  
The Jehovah's Witness patient: Medical, legal, and ethical issues.  
The Changing Practice of Anesthesia, San Francisco, California, September  
Technological advances in the treatment of pain. Pain Management in the Elderly,  
Martinez, California, December  
New techniques for pain management in the ICU. Trauma Update 1988  
1988, San Francisco, California, May Patient-controlled analgesia. Nursing Pain  
Association, San Francisco, California, October  
Pain management: Preoperative assessment and planning. Preoperative 1989  
Evaluation of the Surgical Patient, San Francisco, California, March  
Patient-controlled Analgesia: Uses and limitation. The Changing Practice  
of Anesthesia, San Francisco, California, September  
Advances in continuous spinal anesthesia. Voluntary Hospitals of 1990  
America Satellite Network, Dallas, Texas, May  
Continuous spinal anesthesia: A born-again technique? The Changing Practice of  
Anesthesia, San Francisco, California, September  
Continuous spinal anesthesia: The Good, the Bad and the Ugly. 1991  
Northern California Anesthesia Society, San Francisco, California March  
Small catheter spinal anesthesia. American Society of Regional Anesthesia, Cincinnati,  
Ohio, April  
Safety and efficacy of spinal anesthesia. Anesthesia Grand Rounds, Stanford University,  
Palo Alto, California, May  
Recent issues concerning the safety and efficacy of spinal anesthesia. Food and Drug  
Administration, Rockville, Maryland, July  
Distribution of local anesthetics within the subarachnoid space. Visiting Professor, U.C.  
Irvine, Irvine, California, September  
Safety and efficacy of spinal anesthesia. Orange County Anesthesia Society, Irvine,  
California, September

The "Failed spinal": New insights into an old problem. Visiting 1992  
Professor, Uniformed Services University of Health Sciences, Bethesda, Maryland,  
January  
Toward development of a model of subarachnoid local anesthetic distribution.  
Hydrodynamics and Acoustics Division, Center for Devices and Radiological Health,  
Food and Drug Administration, Rockville, Maryland, January  
Distribution of local anesthetics within the subarachnoid space. Visiting Professor,  
Virginia Mason Clinic, Seattle, Washington, February  
Continuous spinal anesthesia: Uses and limitations in obstetrical anesthesia. Obstetric  
Anesthesia Update: State of the Art, San Francisco, California, March  
Continuous spinal anesthesia. American Society of Regional Anesthesia, Tampa, Florida,  
March  
Recent issues concerning the safety of spinal and epidural anesthesia. The Changing  
Practice of Anesthesia, San Francisco, California, September  
What have we learned about spinal injections and microcatheters? American Society of  
Anesthesiologists, New Orleans, Louisiana, October  
Spinal anesthesia: An incomplete  
evolution. Visiting Professor, Wake Forest University, Bowman Gray  
School of Medicine, Winston-Salem, North Carolina, December  
Local anesthetic neurotoxicity. Visiting Professor, University 1993 of Basel /  
Kantonsspital, Basel, Switzerland, March  
Local anesthetic neurotoxicity. Visiting Professor, University of Lausanne, Lausanne,  
Switzerland, March  
Spinal anesthesia and neurotoxicity. American Society of Regional Anesthesia, Seattle,  
Washington, May  
Models of local anesthetic toxicity from continuous spinal anesthesia. Conference on  
Continuous Spinal Anesthesia, American Society of Regional Anesthesia, Milwaukee,  
Wisconsin, August  
Learning from our mistakes: The "failed spinal", The Changing Practice of Anesthesia,  
San Francisco, California, October  
Management of failed blocks—Repeat? American Society of Anesthesiologists,  
Washington, D.C., October  
Distribution of local anesthetic in the subarachnoid space. Visiting 1994 Professor,  
University of Minnesota, Minneapolis, Minnesota, October  
Local anesthetic neurotoxicity: An historical perspective. Minnesota Society of  
Anesthesiologists, Bloomington, Minnesota, October  
Local anesthetic pharmacology. Sociedad Colombiana de Anestesiologia, Bogota,  
Colombia, November  
Local anesthetic neurotoxicity. Sociedad Colombiana de Anestesiologia, Bogota,  
Colombia, November  
Local anesthetic neurotoxicity: An anesthesiologist's perspective. Northern California  
Society of Oral and Maxillofacial Surgeons. San Francisco, California, November  
Continuous spinal anesthesia, IX International Symposium—New 1995 Aspects in  
Regional Anaesthesia, Dusseldorf, Germany, June  
Delayed complications of spinal anesthesia, IX International Symposium —New Aspects  
in Regional Anaesthesia, Dusseldorf, Germany, June

Transient deficits after spinal anesthesia—how common and how significant? Illinois Society of Anesthesiologists, Oak Brook, Illinois, November

Local anesthetic neurotoxicity. Visiting Professor, University of Illinois, Chicago, Illinois, November

Repeat injection after a failed spinal—At times, an unsafe practice. 1996 Obstetric Anesthesia Update, San Francisco, California, March

Local anesthetic neurotoxicity: Current problems; future solutions. Obstetric Anesthesia Update, San Francisco, California, March

Delayed complications of regional anesthesia. American Society of Anesthesiologists Refresher Course, Chicago, September

Local anesthetic neurotoxicity. American Society of Anesthesiologists Refresher Course, Chicago, September

Delayed complications of regional anesthesia. Visiting Professor, University of Utah, Salt Lake City, Utah, November

Spinal Anesthesia: The next 100 years. Anesthesia for the New Millennium: 10th Annual Kaiser Permanente Symposium, San Francisco, California, November

Local anesthetic neurotoxicity: Current problems; future solutions. Visiting Professor, Uniformed Services University of Health Sciences, Bethesda, Maryland, November

Should we continue to use lidocaine for spinal anesthesia? American 1997 Society of Regional Anesthesia, San Francisco, California, April

Repeat injection after a failed spinal—At times, an unsafe practice. The Changing Practice of Anesthesia, San Francisco, California, September

Transient neurologic symptoms after spinal anesthesia. European Society of Regional Anesthesia, San Sebastian, Spain, November

Local anesthetic neurotoxicity. Visiting Professor, University of Basel / Kantonsspital, Basel, Switzerland, December

Local anesthetic neurotoxicity: Current problems; future solutions. 1998 Japanese Society of Anesthesiologists, Kagoshima, Japan, April

Local anesthetic neurotoxicity, Visiting Professor, Shimane Medical University, Izumo, Japan, April

Is Lidocaine Neurotoxic? American Society of Regional Anesthesia, Seattle, Washington, May

Local anesthetics for the next century. California Society of Anesthesiologists, San Francisco, California, June

Lidocaine spinal anesthesia—The end of an era? The 1998 Fidel Pages Lecture/European Society of Regional Anesthesia, Geneva, Switzerland, September

The Microcatheter controversy—What have we learned? European Society of Regional Anesthesia, Geneva, September

Lidocaine spinal anesthesia: Where do we stand? The Changing Practice of Anesthesia, San Francisco, California, September

Anesthetic neurotoxicity: Preclinical data. American Society of Anesthesiologists, Orlando, Florida, October

Lidocaine spinal anesthesia: Where do we stand? American Society of Anesthesiologists, Orlando, Florida, October

*In vitro* and *in vivo* investigations of anesthetic neurotoxicity. Visiting 1999 Professor, University of Washington, Seattle, Washington, January

Microcatheter spinal anesthesia: An historical perspective. Obstetrical Anesthesia: 1999, San Francisco, California, March

Lidocaine spinal anesthesia: A vanishing therapeutic index? Obstetrical Anesthesia: 1999, San Francisco, California, March

Local anesthetic neurotoxicity: Current problems; future solutions. California Society of Anesthesiologists, San Francisco, California, June

Transient neurologic symptoms after spinal anesthesia. European Society of Regional Anesthesia, Istanbul, Turkey, September

Local Anesthetic Toxicity: Challenges to conventional wisdom. 11<sup>th</sup> Annual Kaiser Permanente Symposium, San Francisco, California November

Local anesthetic neurotoxicity: Reconciling the preclinical and clinical 2000 data.

Visiting Professor, University of Basel / Kantonsspital, Basel, Switzerland, December

Should we abandon the use of lidocaine? Obstetrical Anesthesia: 2001, 2001 San Francisco, California, March

Epinephrine and regional blocks: Not as safe as we thought? Obstetrical Anesthesia: 2001, San Francisco, California, March

Local anesthetic neurotoxicity: Should we abandon the use of lidocaine for spinal anesthesia? International Society for Anaesthetic Pharmacology, New Orleans, Louisiana, October

Cauda equina syndrome: Strategies to reduce risk. American Society of Regional Anesthesia Conference of Anesthetic Toxicity, Miami, Florida, November

PDPH: Current concepts. Obstetrical Anesthesia: 2002, 2002 San Francisco, California, March

Local anesthetic toxicity: An update. Obstetrical Anesthesia: 2002, San Francisco, California, March

Neural injury induced by local anesthetics: Clinical experience and experimental investigations of toxicity, Japanese Society of Pain Clinicians Miyazaki, Japan, July

Local anesthetic neurotoxicity: Should we abandon the use of lidocaine for spinal anesthesia? The Changing Practice of Anesthesia, San Francisco, California, September

Local anesthetic neurotoxicity: The laboratory data. American Society of Anesthesiologists, Orlando, Florida, October

Local anesthetic neurotoxicity. Oral and Maxillofacial Surgery Grand 2003 Rounds, San Francisco, California, January

Is Lidocaine Safe for Spinal and Epidural Anesthesia? Refresher Course Lecture, American Society of Anesthesiologists, San Francisco, California, October

## **PROFESSIONAL ACTIVITIES:**

Professional

Societies: American Society of Anesthesiologists 1983-

California Society of Anesthesiologists 1983-

International Anesthesia Research Society 1983-

International Association for the Study of Pain 1989-

American Society of Regional Anesthesia 1990-

Professional

Service: Question writer, American Board of 1992

Anesthesiology

Committee on Local Anesthesia and Pain, 1992; 2003-  
American Society of Anesthesiologists  
Moderator, American Society of Anesthesiologists  
Annual Meeting 2003  
Committee on Refresher Courses,  
American Society of Anesthesiologists 2004-  
Editorial Services: *Anesthesiology* 1985-  
*Anesthesia & Analgesia* 1985-  
*Pain* 1985-  
*Regional Anesthesia and Pain Medicine* 1993-  
*International Journal of Obstetric Anesthesia* 1994-  
*American Journal of Medicine* 1999-  
*American Journal of Respiratory and Critical  
Care Medicine* 2003-  
Associate Editor, *Regional Anesthesia and* 1999-  
*Pain Medicine*  
International Advisory Board, *Japanese* 2001-  
*Journal of Anesthesia*

#### **TEACHING/ CLINICAL ACTIVITIES:**

Three days per week are spent providing clinical service and teaching in the SFGH Operating Room, as well as serving as Director of the Pain Service and the Anesthesia Preoperative Clinic at SFGH. In addition, approximately two weeknights and one 24-hour weekend shift per month are spent in-house supervising anesthesia emergency services for the Trauma Center, Operating Room, and the Inpatient Facility including the Obstetrical Unit. Teaching provided during the administration of this clinical care is one-on-one with Residents and Medical Students.

#### **Additional Teaching**

Instructor: Fiberoptic Intubation Workshop 1990-Present

Resident didactic sessions on local anesthetics and spinal/epidural anesthesia. 1992-Present

Organizer: Spinal Anesthesia Workshop, American Society of Regional Anesthesia 1992

Organizer: Epidural Workshop, American Society of Regional Anesthesia 1993

Emergency airway management: San Francisco Paramedics 1996-Present

Emergency airway management: SFGH Emergency Physicians 2002-Present

*Kenneth Drasner, M.D. 8*

*Rev. 12/01/03*

#### **PATENTS** Drasner K, Rigler ML

Method and system for continuous spinal delivery of anesthetics. Patent #5,234,406  
August 10, 1993

#### **FUNDING**

Intramural: Mechanisms of morphine potentiation of 1987-88 intrathecal adrenergic analgesia. ---

Local anesthetic neurotoxicity. --- 1993-94 --

Extramural: Effects of inhaled anesthetics on pain 1989-90 processing. Foundation for Anesthesia Education and Research (Principal Investigator): A study of wound healing and wound infection 1990-94

NIH Program Project, GM 27345-11. (Co-Investigator, Project: The effect of perioperative clonidine on anesthetic requirement and postoperative pain.)  
Multicenter investigation of factors affecting 1995-96 transient neurologic symptoms after spinal anesthesia (Principal Investigator)

Kaiser Permanente Research Institute  
Study of local anesthetic neurotoxicity (Principal 1996-2001  
Investigator) National Institutes of Health (grant GM51887)

## **RESEARCH SUPERVISION**

Proprietary information deleted.

## **BIBLIOGRAPHY**

### **JOURNAL ARTICLES**

Drasner K, Epstein CJ, Epstein LB: The antiproliferative effects of interferon on murine embryonic cells. *Proc Soc Exp Biol Med* 1979;160:46-49

Drasner K, Fields HL: Synergy between the antinociceptive effects of intrathecal clonidine and systemic morphine in the rat. *Pain* 1988;32:309-312

Drasner K, Bernards CM, Ozanne GM: Intrathecal morphine reduces the minimum alveolar concentration of halothane in humans. *Anesthesiology* 1988;69:310-312

Fang FG, Haws CM, Drasner K, Williams K, Fields HL: Opioid Peptides (DAGO-Enkephalin, Dynorphin A (1-13), BAM 22P) microinjected into the rat brainstem: Comparison of their antinociceptive effect and their effect on neuronal firing in the rostral ventromedial medulla. *Brain Res* 1989;501:116-28

O'Connor ME, Drasner K: Preoperative laboratory testing of children undergoing elective surgery. *Anesth Analg* 1990;70:176-180

Fassoulaki A, Drasner K, Eger, EI: Is chronic ethanol consumption associated with tolerance to intrathecal lidocaine in the rat? *Anesth Analg* 1990;70:489-92

Ross DA, Drasner K, Weinstein PR, Flaherty JF, Barbaro NM: Use of intrathecal morphine in the treatment of postoperative pain after lumbar spine surgery: A prospective, double-blind, placebocontrolled study. *Neurosurgery* 1991;28:700-704

Miller AC, Scherba-Krugliak L, Toy PT, Drasner K: Hypotension during transfusion of autologous blood. *Anesthesiology* 1991;74:624-628

Rigler ML, Drasner K, Krejcie TC, Yelich SJ, Scholnick FT, DeFontes J, Bohner D: Cauda equine syndrome after continuous spinal anesthesia. *Anesth Analg* 1991;72:275-281

Heinricher MM, Drasner K: Lumbar intrathecal morphine alters activity of putative nociceptive modulatory neurons in rostral ventromedial medulla. *Brain Res* 1991; 549:338-341

Rigler ML, Drasner K. Distribution of catheter-injected local anesthetic in a model of the subarachnoid space. *Anesthesiology* 1991; 75:684-692

Drasner K, Rigler ML, Sessler DI, Stoller ML: Cauda equina after intended epidural anesthesia. *Anesthesiology* 1992; 77:582-585

Wang ML, Seiff SR, Drasner K: A comparison of visual outcome in open-globe repair: Succinylcholine with d-tubocurarine vs. nondepolarizing agents. *Ophthalmol Surg* 1992; 23:746-751

Drasner K: Models for local anesthetic toxicity from continuous spinal anesthesia. *Reg Anesth* 1993; 18:434-438

Drasner K, Sakura S, Chan V, Bollen A, Ciriales R: Persistent sacral sensory deficit induced by intrathecal local anesthetic infusion in the rat. *Anesthesiology* 1994; 80:847-852

Robinson RA, Stewart SFC, Meyers MR, Lien LF, Swisher, JL, Drasner K: *In vitro* modeling of spinal anesthesia: A digital video image processing technique and its application to catheterinjected anesthetic. *Anesthesiology* 1994; 81:1053-1060

Sakura S, Chan V, Ciriales R, Drasner K: The addition of 7.5% glucose does not alter the neurotoxic potential of 5% lidocaine administered intrathecally in the rat. *Anesthesiology* 1995; 82:236-240

Talke P, Li J, Jain U, Leung J, Drasner K, Hollenberg M, Mangano DT: Effects of perioperative dexmedetomidine infusion in patients undergoing vascular surgery. *Anesthesiology* 1995; 82:620-633

Weitz SR, Drasner K: Local anesthetic test dose as a predictor of effective epidural opiate analgesia. *Anesthesiology* 1995; 83:96-100

Sakura S, Bollen A, Ciriales R, Drasner K: Local anesthetic neurotoxicity does not result from blockade of voltage-gated sodium channels. *Anesth Analg* 1995; 81:338-346

Fenerty J, Sonner J, Sakura S, Drasner K: Transient radicular pain following spinal anesthesia: Review of the literature and report of a case involving 2% lidocaine. *Int J Obstet Anesth* 1996; 5:32-35



Weitz SR, Drasner K: Spontaneous intracranial hypotension: A series. *Anesthesiology* 1996; 85:923-925

Hampl KF, Schneider MC, Pargger H, Gut J, Drewe J, Drasner K: A similar incidence of transient neurologic symptoms after spinal anesthesia with 2% and 5% lidocaine. *Anesth Analg* 1996; 83:1046-50

Sakura S, Drasner K: Neurologic sequelae of spinal anesthesia: Local anesthetic neurotoxicity. *Masui* 1996; 45:852-60

Sakura S, Hashimoto K, Bollen A, Ciriales R, Drasner K: Intrathecal catheterization in the rat: An improved technique for morphologic analysis of drug-induced injury. *Anesthesiology* 1996; 85:1184-9

Sakura S, Sumi M, Sakaguchi Y, Saito Y, Kosaka Y, Drasner K: The addition of phenylephrine contributes to the development of transient neurologic symptoms after spinal anesthesia with 0.5% tetracaine. *Anesthesiology* 1997; 87:771-8

Chan VWS, Garcia J, Al-Kaisy A, Drasner K: A comparative study of low-dose hyperbaric lidocaine 0.5% vs. 5% for continuous spinal anesthesia. *Reg Anesth Pain Med* 1998; 23:164-169

Hampl K, Heinzmann-Wiedmer S, Luginbuehl I, Harms C, Seeberger M, Schneider M, Drasner K: Transient neurologic symptoms after spinal anesthesia: A lower incidence with prilocaine and bupivacaine than with lidocaine. *Anesthesiology* 1998; 88:629-33

Hashimoto K, Sakura S, Bollen AW, Ciriales R, Drasner K: Comparative toxicity of glucose and lidocaine administered intrathecally in the rat. *Reg Anesth Pain Med*, 1998; 23:444-50

Gold MS, Reichling DB, Hampl KF, Drasner K, Levine JD: Lidocaine toxicity in primary afferent neurons from the rat. *J Pharmacol Exp Ther* 1998; 285:413-421

Freedman J, Li D, Drasner K, Jaskela M, Li D, Larsen B, Wi S: Transient neurologic symptoms after spinal anesthesia: An epidemiologic study of 1863 patients. *Anesthesiology* 1998; 89:633-41

Drasner K: Low concentrations of halothane increase response to a noxious thermal stimulus and attenuate the antinociceptive effect of intraventricular, but not intrathecal, morphine. *Anesthesiology* 2001; 94:298-302

Hashimoto K, Hampl K, Nakamura Y, Bollen A, Feiner J, Drasner K: Epinephrine increases the neurotoxic potential of intrathecally administered lidocaine in the rat. *Anesthesiology* 2001; 94:876-883

Kishimoto T, Bollen A, Drasner K: Comparative spinal neurotoxicity of prilocaine and lidocaine. *Anesthesiology* 2002; 97:1250-3

Drasner K: Local anesthetic neurotoxicity: Clinical injury and strategies that may minimize risk. *Reg Anesth Pain Med* 2002; 27:576-80

Taniguchi M, Bollen AW, Drasner K: Sodium Bisulfite: Scapegoat for chloroprocaine toxicity? *Anesthesiology* 2004; 100:85-91

## **ABSTRACTS**

Drasner K, Fields HL: Synergy between the antinociceptive effects of intrathecal clonidine and systemic morphine in the rat. *Anesth Analg* 1987; 66:S42

Drasner K, Bernards CM, Ozanne GM: Intrathecal morphine reduces the minimum alveolar concentration of halothane in man. *Anesth Analg* 1988; 67:S52

Gruber AG, Drasner K, Fields HL: Potentiation of the antinociceptive effect of intrathecal clonidine by intraventricular morphine in the rat. *Anesth Analg* 1989; 68:S113

Gold B, Bogetz M, Orkin F, Drasner K: Continuous spinal anesthesia for ambulatory surgery patients. *Anesthesiology* 1989; 71:A722

Drasner K, Connolly M, Reece WM: Continuous Spinal Anesthesia: Use of a 28-gauge catheter threaded through a 22-gauge needle. *Reg Anesth* 1990; 15(1S):34

Drasner K, Ciriales R: Low concentrations of halothane produce hyperalgesia and attenuates descending inhibition. *Pain* 1990; S448

Swisher J, Drasner K, Rigler M, Mulroy MF: Does port orientation of side-port spinal needles affect the segmental concentration of local anesthetic injected into a model of the subarachnoid space? *Anesthesiology* 1992; 77:A881

Weitz SR, Drasner K: Local anesthetic test dose as a predictor of effective epidural opiate analgesia. *Reg Anesth* 1993; 18(2S):21

Robinson RA, Stewart SFC, Meyers MR, Lien LF, Swisher JL, Drasner K: Distribution of local anesthetic in a model of the subarachnoid space: A digital video image processing technique and its application to catheter-injected anesthetic. *Reg Anesth* 1993; 18(2S):7

Sakura S, Chan V, Ciriales R, Drasner K: Intrathecal infusion in the rat results in dose-dependent, but not concentration-dependent, sacral root injury. *Anesthesiology* 1993; 79:A851

Sakura S, Chan V, Ciriales R, Drasner K: Do local anesthetic solutions currently used for spinal anesthesia differ in their neurotoxic potential? *Anesthesiology* 1993; 79:A880

Aviles J, Barbaro N, Drasner K: Pharmacology of descending hyperalgesia: Evidence for involvement of spinal cord kappa and alpha-adrenergic receptors. *Anesthesiology* 1993;79: A906

Hampl K, Schneider M, Drasner K, Stotz G, Drewe J: 5% hyperbaric lidocaine: A risk factor for transient radicular irritation? *Anesthesiology* 1993;79: A877

Weitz SR, Drasner K: Local anesthetic test dose as a predictor of effective epidural opiate analgesia. *Anesthesiology* 1993; 79:A885

Hashimoto K, Nakamura Y, Hampl K, Ciriales R, Bollen A, Drasner K: Epinephrine increases the neurotoxic potential of intrathecally administered local anesthetic in the rat. *Anesthesiology* 1996; 85:A770

Freedman J, Li D, Jaskela M, Larsen B, Drasner K: Risk factors for transient neurologic symptoms after spinal anesthesia. *Anesthesiology* 1996; 85:A741

Sakura S, Sumi M, Sakaguchi Y, Kosaka Y, Drasner K: The addition of phenylephrine to 0.5% tetracaine increases the incidence of transient neurologic symptoms after spinal anesthesia. *Anesthesiology* 1996; 85:A780

Hampl K, Hashimoto K, Nakamura Y, Ciriales R, Drasner K: Does duration of exposure affect local anesthetic-induced irreversible conduction loss in isolated frog nerve? *Anesthesiology* 1998; 87:A814

Hampl K, Hashimoto K, Nakamura Y, Bollen A, Drasner K: Co-administration of verapamil does not alter the neurotoxic potential of intrathecal lidocaine in the rat. *Anesthesiology* 1998; 87:A747

Kishimoto T, Ciriales R, Bollen A, Drasner K: Comparison of the neurotoxicity of intrathecal lidocaine and prilocaine in the rat. *Anesthesiology* 1998; 87:A1421

Hashimoto K, Nakamura Y, Hampl K, Bollen A, Drasner K: The functional and histologic effects of 1.5% lidocaine and 0.43% bupivacaine administered intrathecally in the rat. *Anesthesiology* 1998; 87:A1422

Kishimoto T, Hashimoto K, Ciriales R, Bollen A, Drasner K: The effect of concentration on the neurotoxicity of lidocaine administered intrathecally in the rat. *Anesthesiology* 1998;87: A1424

Hampl K, Hashimoto K, Nakamura Y, Richardson C, Drasner K: Irreversible conduction loss induced by equipotent concentrations of local anesthetic. *Anesthesiology* 1999; 91: A892

Taniguchi M, Bollen A, Drasner K: Epinephrine increases the neurotoxic potential of intrathecally administered tetracaine in the rat. *Anesthesiology* 1999; 1:A848

Ibusuki S, Choi JH, Fang Z, Bollen A, and Drasner K: Comparative neurotoxicity of intrathecal meperidine and lidocaine in the rat. *Anesthesiology* 2000; 93: A725

Taniguchi M, Bollen AW, Drasner K: Is sodium bisulfite neurotoxic? *Anesthesiology* 2000; 93:A838

Choi JH, Ibusuki S, Fang Z, Bollen AW, Drasner K: Evaluation of the neurotoxicity of intrathecal ketamine in the rat. *Anesthesiology* 2001; 95: A983

## **EDITORIALS**

Drasner K: Lidocaine spinal anesthesia: A vanishing therapeutic index? *Anesthesiology* 1997;87:469-472

Drasner K: Thoracic epidural anesthesia: Asleep at the wheel? *Anesth Analg* [In press]  
**BOOK CHAPTERS AND REVIEWS**

Drasner K, Marks JD: Emergency Anesthesia. In: Dieckmann RA, Grossman M, eds: *Pediatric Emergency Medicine: A Clinician's Reference*. JB Lippincott Company, Philadelphia, PA, 1991, pp 237-241.

Drasner K, Katz JA, Schapera A: Control of Pain and Anxiety, chap 82, In: Hall JB, Schmidt GA, Wood LDH, eds: *Principles of Critical Care*. New York, NY, McGraw-Hill, 1992, pp 958-973

Drasner K: Subarachnoid Anesthesia/Analgesia. In: Hahn M, ed: *Color Atlas of Anatomy for Regional Anesthetic Techniques*. Mosby, St. Louis, MO, 1995

Drasner K, Swisher J: Delayed Complications and Side Effects. In: Brown DL, ed: *Textbook of Regional Anesthesia and Analgesia*. W.B. Saunders, Philadelphia, PA, 1996, pp 462-476

Cammarano W, Drasner K, Katz JA, Schapera A: Control of Pain and Anxiety, In: Hall JB, Schmidt GA, Wood LDH, eds: *Principles of Critical Care*, 2nd Edition. New York, NY, McGraw- Hill, 1998

Drasner K: Lidocaine spinal anesthesia—The end of an era? In: Van Zundert A, ed: *Highlights in Pain Therapy and Regional Anesthesia*. VII. Hadjigeorgiou Printings and Co. Ltd. Cyprus, 1998, pp 13-17

Drasner K: The Microcatheter controversy-What have we learned? In: Van. Zundert, A, ed: Highlights in Pain Therapy and Regional Anesthesia. VII. Hadjigeorgiou Printings and Co. Ltd. Cyprus, 1998, pp 158-160

Hampl K, Schneider MC, Drasner K: Toxicity of Spinal Local Anesthetics. Current Opinion in Anaesthesiology 1999; 12: 559-564

Drasner K, Bromage PR: Choice of Local Anesthetics in Obstetrics. In: Hughes SC, Levinson G, Rosen MA, eds: Anesthesia for Obstetrics, 4th Edition. JB Lippincott Company, Philadelphia, PA, 2001, pp 73-94

Drasner K: Subarachnoid Anesthesia/Analgesia. In: Hahn, M, ed: Color Atlas of Anatomy for Regional Anesthetic Techniques, 2nd Edition. Mosby, St. Louis, MO, [In press]

### **OTHER**

Drasner, K: Kenya: More creatures than comforts. New York Times Travel Section, September June 10, 1973

Drasner, K: Small catheter spinal anesthesia. American Society of Regional Anesthesia Newsletter, August 1991

Drasner K, Rigler M: Repeat injection after a "failed spinal"—At times, a potentially unsafe practice. Letter to the editor. Anesthesiology 1991;75:713-14

Drasner K, Rigler ML, Krejcie TC, Yelich SJ, Scholnick FT, DeFontes J, Bohner D: Catheter spinal anesthesia and cauda equina syndrome. Letter to the editor (reply). Anesth Analg 1991;73:369-370

Ross D, Barbaro NM, Drasner K: Intrathecal morphine for postoperative analgesia in children after selective dorsal rhizotomy. Letter to the editor. Neurosurgery 1992;29:950-1

Drasner K, Rigler M: How to proceed following a "failed spinal". Letter to the editor (reply). Anesthesiology 1992;76:477

Drasner K: Epitome of Pain Management. Western Journal of Medicine 1992;57:565

Drasner, K: An analysis of the FDA decision to withdraw approval of small-bore catheters for continuous spinal anesthesia. American Society of Regional Anesthesia Newsletter, June 1992

Drasner K, Rigler M: Factors affecting distribution of catheter-injected local anesthetic. Letter to the editor (reply). Anesthesiology 1992; 77:213

Drasner K, Rigler ML, Krejcie TC, Yelich SJ, Scholnick FT, DeFontes J, Bohner D: Myelopathy and back pain—Take heed. Letter to the editor (reply). *Anesth Analg* 1992;75:862-863

Drasner K: Cauda equina syndrome and continuous spinal anesthesia. Letter to the editor (reply). *Anesthesiology* 1992;78:215-216

Drasner K: Lidocaine 5%, Should we still use it for spinal anesthesia? *American Society of Regional Anesthesia Newsletter*, November 1995

Weitz S, Drasner K: Local anesthetic test dose to predict effective epidural opioid analgesia. Letter to the editor (reply). *Anesthesiology* 1996; 84:488

Drasner K: Transient radicular pain following spinal anesthesia. Letter to the editor (reply). *Int J Obstet Anesth* 1996; 5:285-8

Drasner K: Drawing conclusions from Pollock et al: Limitations imposed by study design. Letter to the editor. *Anesthesiology* 1996; 85:1494-1496

Hampl K, Schneider MC, Drasner K: Transient radicular irritation: A misnomer? Letter to the editor (reply). *Anesth Analg* 1997; 84:1392-3

Sakura S, Drasner K: Is phenylephrine or sodium bisulfite neurotoxic? Letter to the editor (reply). *Anesthesiology* 1998; 89:274

Hampl K, Schneider MC, Drasner K: Rate of injection and neurotoxicity of spinal lidocaine. Letter to the editor (reply). *Anesthesiology* 1999; 90:325

Drasner K: A patient dissatisfied with her care. Letter to the editor. *JAMA* 2001; 286:1311-2